Industry: Telecommunications
Client: Tier One Mobile Operator

Krontech's Single Connect Privileged Access Management selected as the only scalable solution designed to meet security and audit requirements in a heterogeneous and fragmented data center environment.

Introduction

A Mobile Service provider managing over 20,000 network devices, 3,000 engineers and operators, and hundreds of vendors needed help addressing the growing complexity of managing access. The complexity was increasing as more and more departments added more business applications and services, so the IT team began looking for software automation and security solutions.

Challenge

Orchestrating dozens of different authentication systems (TACACS, RADIUS and LDAP, SQL and more) created massive complexity, particularly as regulations required that the service provider indisputably log every change made to their infrastructure to prevent malicious configurations.

Approach

Simplify and automate access control using Single Connect, Krontech's carrier-grade Privileged Access Management technology, implementing a man-in-the-middle solution to secure data center and network operations.

Benefits

» Provided for the comprehensive audit and logging of privileged accounts activity

» Secured and controlled access management through one intuitive platform, reducing confusion, complexity and cost

» Generated vital compliance reports for government regulations

» Ensured a greater level of security around network operations

» Ensured that each configuration change on the infrastructure was verified and approved based on company business policies

Case Study

Protect What You Connect™

Context, Implementation & Success

Business & network growth, combined with stricter regulatory requirements, made Privileged Access Management impossible to manage for this very successful data center and networking company.

With a massive, hybrid packet-core network infrastructure, this service provider was under pressure to comply with increasingly sophisticated and stringent government regulations. Fragmentation of network infrastructure between different business units was increasing the complexity of privileged access manageability.

Every department achieved a certain level of traceability by tracking their own network engineers' efforts, however the service provider outgrew the ability to manage access as the size of the business and related operational complexities increased.

This service provider built in-house solutions for each business unit to manage privileged access and identities, but found that having several different solutions was not feasible and did not scale meet with its emerging requirements.

Since vendors and authorization information had used different authorization mechanisms, making security policy consistent was nearly impossible. Policies had to be applied to many databases with almost no automatic integrity check implemented. Some devices, for example, those without NMS embedded, were completely out of coverage.

What the service provider wanted was a single solution, standardized across the different business units that could be scaled up easily, as required.

Through this unification process the customer also needed to cover privileged access logging regulations of the government.

After a thorough assessment of the global authentication requirements , and a review of the many different types of network equipment, the service provider decided on a unified approach. They entertained building an in-house solution and interviewed numerous direct competitors to solve the problem. After a thorough analysis on vendor capabilities and pricepoints, Krontech's Single Connect Privileged Access Management solution was selected.

Krontech's professional service team worked closely with each department during the analysis phase of the project, and the solution architecture team created a solution including privileged session management and embedded AAA features.

Single Connect seamlessly unified different AAA's and TACACS+ servers deployed into the network and replaced them.

The service provider gained authentication and authorization of network admins access to devices by pre-integrated mediation with NMS devices, ending with a clean, single-point configurable, traceable, visible authentication mechanism including legacy CLI devices support. Beyond that, the advanced logging and session recording features of Single Connect also solved for the regulatory requirements, including reporting regarding access to critical information.

Each business unit significantly improved operational quality and met regulatory requirements more efficiently with a universal platform.

Single Connect today enables efficient management and security for thousands of privileged accounts across heterogeneous data centers and business units. The service provider reached the desired compliancy level with government regulations, while a single framework improved the overall efficiency of the IT team with less time required, compared to managing many different systems across the growing organization.

In the Customer's Own Words

"Selecting Krontech's Single Connect Privileged Access Management solution was the right decision. The implementation immediately improved the efficiency of our operations and, beyond that, strengthened our compliance with security regulations. Managing access and control of privileged accounts is substantially easier today."

Managing Director,
Tier 1 Mobile Service Provider

Learn more about Krontech's Single Connect by visiting krontech.com

About Krontech

Krontech's mission is to support telecom service providers and large enterprises secure their networks with Privileged Access Management software and solutions. We help organizations reduce risks and operate more efficiently.

Krontech is a software company established in 2007, and produces and integrates advanced technology software in the fields of Access Control Systems, Network Packet Brokerage, Streaming Analytics, Fast Data & Real Time Data Processing, and Next-generation Security and Audit. With cost-efficient, flexible, and tailored solutions, Krontech is a respected and proven partner, supporting many Tier-1 telecom service providers and large global enterprises. Krontech is headquartered in New York City with research and development facilities in Istanbul, and regional sales and support offices in Europe, Middle East and Africa, and Asia Pacific.